BRUHAT BANGALORE MAHANAGARA PALIKE

YELAHANKA ZONE

Name of the work: **Modified Estimate for Improvements to Roads, Construction of Culvert and Asphalting to Singapura layout Roads in Ward No. 11 (Kuvempunagara), Vidyaranyapura Sub Division.**

			Estimate Cost:						2000000.00
Sl. No	Description	Unit	No.	L	B	D	Qty	Rate	Amount
1	KSRRB 300-2. Earth work excavation by manual means in hard soil involving an average horizontal throw upto 2 meters and an average lift upto 0.5m, excavated surface leveled and sides neatly dressed, the disposed earth to be leveled neatly after breaking of clods complete as per specifications complete as per specifications MORTH chapter 3. **Page No. 152 / Item No. 19.2 / PWD SR 2013-14**	Cum							
	Desilting of Drains								
	Main Road		2	200.00	0.45	0.25	45.00		
	1st Cross Road		2	100.00	0.45	0.25	22.50		
	2nd Cross Road		2	100.00	0.45	0.25	22.50		
	3rd Cross Road		2	55.00	0.45	0.25	12.38		
	Road Surface								
	1st Cross Road		2	200.00	0.90	0.20	72.00		
	2nd Cross Road		2	100.00	0.90	0.20	36.00		
	3rd Cross Road		2	100.00	0.90	0.20	36.00		
	Main Road		2	55.00	0.90	0.20	19.80		
							266.18	90.72	**24147.00**
	Basic Rate	84.00							
	Area Weightage @8%	6.72							
	Total	**90.72**							
2	Removing B.S. Slab Drain and stacking **(P. 28 / I. 5.32 PWD SR - 2013-14)**	Sqm							
			2	75.00		1.35	202.50		
			2	35.00		1.35	94.50		
			2	30.00		1.35	81.00		
			2	35.00		1.35	94.50		
							472.50	50.11	**23678.00**
	Basic Rate	46.40							
	Area Weightage @8%	3.71							
	Total	**50.11**							
3	Refixing stone slabs of drains and pointing in CM (1:3) **(P. 28 / I. 5.33 PWD SR - 2013-14)**	Sqm							
			Vide Item No. 2				**472.50**	70.04	**33093.00**
	Basic Rate	64.85							
	Area Weightage @ 8%	5.19							
	Total	**70.04**							

Sl. No	Description	Unit	No.	L	B	D	Qty	Rate	Amount
4	KSRRB 500-3: Scarifying existing stone metal layer upto 75mm thick along with their bituminous surface, picking up scarified materials and stacking of old serviceable materials with lead of 100m, sequential spreading of the salvaged aggregates with fresh aggregates on prepared base and consolidating as per water bound macadam specifications including cost of all labour, HOM of machineries complete as per specifications. MORTH chapter 5, **No. 175 / Item No. 21.3 / PWD SR 2013-14**	Sqm							
	Main Road Widening Portion		1	200.00	5.00		1000.00		
	1st Cross Road		1	100.00	5.00		500.00		
	2nd Cross Road		1	100.00	5.00		500.00		
	3rd Cross Road		1	55.00	5.00		275.00		
							2275.00	72.79	**165602.00**
	Basic Rate	67.40							
	Area Weightage @ 8%	5.39							
	Total	**72.79**							
5	Providing, laying, spreading and compacting graded stone aggregate to **wet mix macadam** specification including premixing the Material with water at OMC in mechanical mix plant carriage of mixed Material by tipper to site, laying in uniform layers with paver in sub-base / base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specifications **(P. 170 / I. 20.18) PWD SR - 2013-14.**	Cum							
	UGD and Water Cutting								
	Main Road Widening Portion		1	200.00	1.50	0.20	60.00		
	1st Cross Road		1	100.00	1.50	0.20	30.00		
	2nd Cross Road R/S		1	100.00	1.50	0.20	30.00		
	2nd Cross Road L/S		1	55.00	1.50	0.20	16.50		
	Road Surface								
	Main Road Widening Portion		1	200.00	5.50	0.15	165.00		
	1st Cross Road		1	100.00	5.00	0.15	75.00		
	2nd Cross Road R/S		1	100.00	5.00	0.15	75.00		
	2nd Cross Road L/S		1	55.00	5.50	0.15	45.38		
							496.88	1121.04	**557017.00**
	Basic Rate	1038.00							
	Area Weightage @ 8%	83.04							
	Total	**1121.04**							
6	KSRRB 500-1.1 : Cleaning the existing WBM road surface including removing of binding materials and other foreign matter with wire bushes and small picks, sweeping with brooms or soft brushes and finally dusting with old gunny bags and / or compressed air to receive bituminous treatment including cost of all materials, labour, HOM of machineries, curing complete as per specifications. Specification No. 500-1.3 **(P.175 / I.21.1) PWDSR 2013-14**	Sqm							

Sl. No	Description	Unit	No.	L	B	D	Qty	Rate	Amount
	Main Road		1	200.00	5.50		1100.00		
	1st Cross Road		1	100.00	5.00		500.00		
	2nd Cross Road R/S		1	100.00	5.00		500.00		
	2nd Cross Road L/S		1	55.00	5.50		302.50		
							2402.50	10.53	**25298.00**
	Basic Rate	9.75							
	Area Weightage @ 8%	0.78							
	Total	**10.53**							
7	KSRRB 500-5: providing and applying primer coat from 12.2 to 14.6kg per 10 sqm for surfaces of high porosity over prepared surface of granular base with cut back M.C.-70 or any other bitumen mixed with diesel at 13 kg per 10 sqm heated in bitumen boiler fitted with spray set (excluding cleaning of road surface) including cost of all materials, labour, HOM of machineries complete as per specifications. MORTH chapter 5, **No. 175 / Item No. 21.5 / PWD SR 2013-14**	Sqm							
			Qty Vide Item No. 5				2402.50		
							2402.50	142.07	**341333.00**
	Basic Rate	131.55							
	Area Weightage @ 8%	10.52							
	Total	**142.07**							
8	KSRRB M500-18: Providing and laying semi dense bituminous concrete 25mm thick with 100-120 TPH batch type HMP producing an average output of 75 tonnes per hour using crushed aggregates of specified grading, premixed with bituminous binder at 4.5 to 5% of mix and filler, transporting the hot mix to work site, laying with a hydrostatic paver finisher with sensor control to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem roller to achieve the desired compaction as per MORTH specifications clause No. 500.8 complete in all respects as per specificationsWith 60/70 grade bitumen using 40-60 HMP, **No. 178 / Item No. 21.20.4 / PWD SR 2013-14.**	Cum							
	Main Road		1	200.00	5.50	0.025	27.50		
	1st Cross Road		1	100.00	5.00	0.025	12.50		
	2nd Cross Road R/S		1	100.00	5.00	0.025	12.50		
	2nd Cross Road L/S		1	55.00	5.50	0.025	7.56		
							60.06	9981.36	**599505.00**
	Basic Rate	9242.00							
	Area Weightage @ 8%	739.36							
	Total	**9981.36**							
9	Lead for Disposal of Debris shall be payable at carriage rates by Mechanical means inlcuding loading and unloading. From 0.00 to 2.00 Km (Page No.123)	Cum							
			Vide Item No. 1				**199.63**	72.71	**14514.00**
	Average weight of earth 1.28 tonne / kg for 2X1.28X2.00=5.12	5.12							

Sl. No	Description	Unit	No.	L	B	D	Qty	Rate	Amount
	Add loading and unloading Vide item no.17.1 P.no.141	62.20							
		67.32							
	Area Weightage @ 8%	5.39							
	Total	**72.71**							
10	Sub Total								**1784187.00**
11	KRIDL Charges @ 11%								**196261.00**
12	QC Charges @ 1%								**17842.00**
13	Miscellaneous and other Charges	**L/S**							**1710.00**
								Total	**2000000.00**
(Rs. Twenty Lakhs Only)									

CERTIFICATE:

1 The work spot has been inspected and the work is found necessary.
2 This estimate is prepared as per P.W.D S.R of 2012-13.
3 This work included under 2012-13 POW Grant.
4 The provisions were made in this estimate are necessary and adequate.
5 This works come under B.B.M.P. limits.

Assistant Engineer

Assistant Executive Engineer
Bruhat Bangalore Mahanagara Palike
Vidyaranyapura Sub Division

Executive Engineer
Bruhat Bangalore Mahanagara Palike
Byatarayanapura Division

Technical Sanction for Rs. 20.00 lakhs
Twenty lakhs only
011-14-000024.
EE(BTP)TS/09/14-15, 9/7/14
Registered as EE No:.....Dated.....Subject to conditions contained enclosed memo.
No:...../.....Dr.....
AEE

EE (BTP.Div.)